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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Jaeho Kim et al.

Title: CARDIAC CYCLE SYNCHRONIZED SAMPLING OF IMPEDANCE SIGNAL

Docket No.: 279.582US1

Serial No.: 10/612,388

Filed: July 2, 2003

Examiner: Carl H. Layno

Group Art Unit: 3766

Mail Stop Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ Return postcard.
- ☒ Communication Concerning Related Applications (2 pgs.).
- ☒ Information Disclosure Statement (2 pgs.), Form 1449 (3 pgs.), and copies of 11 cited documents.
- ☒ Check in the amount of \$180.00 to cover the fee for consideration of Information Disclosure Statement under 97(c).

Please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

Customer Number 21186

By: 

Atty: Timothy E. Bianchi

Reg. No. 59,610

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 29 day of September, 2006.

Nicole Jack
Name


Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
(GENERAL)



Serial 10/612,388

PATENT

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Title: CARDIAC CYCLE SYNCHRONIZED SAMPLING OF IMPEDANCE SIGNAL

COMMUNICATION CONCERNING RELATED APPLICATIONS

Mail Stop Amendment

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P.O. Box 1450

Alexandria, VA 22313-1450

Applicants would like to bring to the Examiner's attention the following related applications in the above-identified patent application:

<u>Serial/Patent No.</u>	<u>Filing Date/Issue Date</u>	<u>Attorney Docket</u>	<u>Title</u>
09/032,731 6,076,015	February 27, 1998	279.078US1	RATE ADAPTIVE CARDIAC RHYTHM MANAGEMENT DEVICE USING TRANSTHORACIC IMPEDANCE
09/316,690 6,161,042	May 21, 1999	279.078US2	RATE ADAPTIVE CARDIAC RHYTHM MANAGEMENT DEVICE USING TRANSTHORACIC IMPEDANCE
09/492,912 6,463,326	January 20, 2000	279.078US3	RATE ADAPTIVE CARDIAC RHYTHM MANAGEMENT DEVICE USING TRANSTHORACIC IMPEDANCE
10/319,794	December 13, 2002	279.467US1	RESPIRATION SIGNAL MEASUREMENT APPARATUS, SYSTEMS, AND METHODS
10/359,820 7,062,326	February 6, 2003	279.485US2	METHOD AND APPARATUSES FOR MONITORING HEMODYNAMIC ACTIVITIES USING AN INTRACARDIAC IMPEDANCE DERIVED PARAMETER
10/696,729	October 29, 2003	279.652US1	CROSS-CHECKING OF TRANSTHORACIC IMPEDENCE AND ACCELERATION SIGNALS

COMMUNICATION CONCERNING RELATED APPLICATIONS

Serial Number: 10/612,388

Filing Date: July 2, 2003

Title: CARDIAC CYCLE SYNCHRONIZED SAMPLING OF IMPEDANCE SIGNAL

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Dkt: 279.582US1

Continuations and divisionals may be later filed on the cases listed above, or cited to the Examiner in any previous Communication Concerning Related Applications. Applicants request that the Examiner review all continuations and divisionals of the above-listed or previously-cited patent applications before allowing the claims of the present patent application.

Respectfully submitted,

JAEHO KIM ET AL.

By Applicants' Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(612) 373-6912

Date

Sep. 27, 2006

By



Timothy E. Bianchi
Reg. No. 39,610

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Name

Nicole Hea

Signature





SN 10/612,388

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Jaeho Kim et al.	Examiner:	Carl H. Layno
Serial No.:	10/612,388	Group Art Unit:	3766
Filed:	July 02, 2003	Docket:	279.582US1
Title:	CARDIAC CYCLE SYNCHRONIZED SAMPLING OF IMPEDANCE SIGNAL		

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(c)(2), Applicants have included the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p). Please charge any additional fees or credit any overpayment to Deposit Account No. 19-0743.

INFORMATION DISCLOSURE STATEMENT

Serial No :10/612,388

Filing Date: July 02, 2003

Title: CARDIAC CYCLE SYNCHRONIZED SAMPLING OF IMPEDANCE SIGNAL

Page 2

Dkt: 279.582US1

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications, and Non-Published Applications identifiable by USPTO Serial Number, are no longer required to be provided to the Office. Notification of this change to this effect was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004 and October 19, 2004. Thus, Applicant has not included copies of any US Patents or US Patent Applications identifiable by serial number that may be cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

Respectfully submitted,

JAEHO KIM ET AL.


By their Representatives,

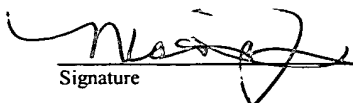
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
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Date Sep. 29, 2006

By 
Timothy E. Bianchi
Reg. No. 39,610

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Name

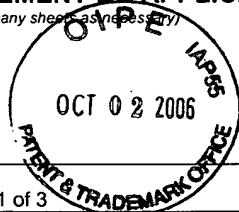

Signature

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number	10/612,388
Filing Date	July 2, 2003
First Named Inventor	Kim, Jaeho
Group Art Unit	3766
Examiner Name	Layno, Carl

Sheet 1 of 3

Attorney Docket No: 279.582US1

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
	US-2003/0105499A1	06/05/2003	Hartley, J. W., et al.	10/08/2002
	US-2003/0114891A1	06/19/2003	Hiebert, J. F., et al.	01/27/2003
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	US-4,291,699	09/29/1981	Geddes, L. A., et al.	09/21/1978
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EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: In col. of reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/612,388
Filing Date	July 2, 2003
First Named Inventor	Kim, Jaeho
Group Art Unit	3766
Examiner Name	Layno, Carl

Sheet 2 of 3

Attorney Docket No: 279.582US1

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
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EXAMINER**DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in accordance with MPEP 609. Draw line through citation if not in accordance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

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Group Art Unit	3766
Examiner Name	Layno, Carl

Sheet 3 of 3

Attorney Docket No: 279.582US1

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	US-6,459,929	10/01/2002	Hopper, Donald, et al.	04/12/2000
	US-6,463,326	10/08/2002	Hartley, J. W., et al.	01/20/2000
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Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T ²
	DE-2805482-With English Abstract	03/05/1987	Hofmann, G. H.	
	EP-0003567-With English Abstract	08/22/1979	Hofmann, Gerhard H.	
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OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		HAUCK, JOHN A., "A Minute Ventilation Sensor Derived from Intra-thoracic Electric Impedance as a Cardiac Pacemaker Rate Modulator", <u>University of Minnesota Master Thesis</u> , (June 1993), Pages 80-86 & 97	

EXAMINER**DATE CONSIDERED**

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